

1 COMPILER DEVICE, PROGRAM, AND RECORDING MEDIUM

2 ABSTRACT

3 Compiler device for optimizing program which
4 manipulates a character string includes append instruction
5 detection unit, store code generation unit, and append code
6 generation unit. The append instruction detection unit
7 detects an append instruction which appends a character
8 string to a string variable for storing a character string,
9 in the program. The store code generation unit generates, a
10 substitute for each of a plurality of the append
11 instructions detected by the append instruction detection
12 unit, a store code for storing data of an appendant
13 character string to be appended to the string variable by
14 the append instruction into a buffer. The append
15 instructions append the character strings to the same string
16 variable. The append code generation unit generates append
17 code for appending a plurality of the appendant character
18 strings to the string variable, at a position executed
19 before an instruction to refer to the string variable in the
20 program.